



Mining
Form
MR-500

S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
BUREAU OF LAND AND WASTE MANAGEMENT
DIVISION OF MINING AND SOLID WASTE PERMITTING
2600 Bull Street, Columbia, SC 29201
Telephone Number: (803) 896-4261 Fax Number: (803) 896-4001

RECLAMATION PLAN
DHEC FORM 500 DATE VERSION ADOPTED 7/1/94

As required in Section 48-20-90 of the South Carolina Mining Act, "An operator shall submit with his application for an operating permit a proposed reclamation plan. The reclamation plan for an operating permit only must be furnished to the local soil and water conservation district in which the mining operation is to be conducted. The plan must include as a minimum each of the elements specified in the definition of 'reclamation plan' in Section 48-20-40 and information required by the department. The reclamation plan must provide that reclamation activities, particularly those relating to control of erosion, to the extent feasible, must be conducted simultaneously with mining operations and be initiated at the earliest practicable time after completion or termination of mining on a segment of the permitted land. The plan must provide that reclamation activities must be completed within two years after completion or termination of mining on each segment of the area for which an operation permit is requested unless a longer period specifically is permitted by the department."

FEB 12 2009

I. APPLICANT INFORMATION

DIVISION OF MINING &
SOLID WASTE MANAGEMENT
BL&WM

1. Name of Company: Coastal Concrete Southeast, LLC
2. Name of Proposed Mine: Coastal Concrete Cottageville Mine County: Colleton
3. Home Office Address: Goshen Commercial Park, 135 Goshen Road Extension, Suite 120 (912) 826-3130
(Street and P.O. Box) (Telephone No.)
Rincon GA 31326 (912) 826-3131
(City) (State) (Zip Code) (Fax No.)
4. Local Office Address: Same as above
(Street and P.O. Box) (Telephone No.)
(City) (State) (Zip Code) (Fax No.)
5. Name of company personnel and their title to be the contact for official business and correspondence: Mr. Jason Hudson- Operation Manager
6. Location of Mine: Pierce Road (Secondary State Road 35) Cottageville
State or County Hwy No. Nearest Town or City

II. ENVIRONMENTAL PROTECTION

1. Describe practices to protect adjacent resources such as roads, wildlife areas, woodland, cropland and others during mining and reclamation.
There are no croplands on or adjacent to the site. The proposed mine site is approximately 3,900 feet from the nearest road. A 50' vegetated buffer will remain in place around the proposed mine site through the life of the mine to protect adjacent resources. Existing roads shall be used for ingress and egress. Additionally, adjacent wetlands have been identified and protected with a 50' buffer to prevent and adverse effects.
2. Describe proposed methods to limit significant adverse effects on adjacent surface water and groundwater resources.
No significant adverse effects on adjacent surface water is anticipated. All runoff from the mine activity will be returned to the mine. Furthermore, all storm/ground water will be transferred to the holding/settling pond where it will remain throughout the life of the mining activities. There will be no output of water into adjacent wetlands.
3. Describe proposed methods to limit significant adverse effects on known significant cultural or historic sites within the proposed permitted area.
Correspondence with the State Historic Preservation Office (SHPO) concluded that an intensive cultural resource survey was not needed. Based on the property's history and location it was determined that there are no significant cultural or historic sites on the property. We have enclosed the concurrence letter from SHPO for your review.

4. Describe method to prevent or eliminate conditions that could be hazardous to animal or fish life in or adjacent to the permitted area.

It is anticipated that no conditions that could be hazardous to animals or fish will develop as a result of the mining activity. It has been our experience that fish and wildlife flourish in and around this type of mine site. Mine sites, when complete, provide habitat for many species of fish and wildlife, including many avian species, various herpetofauna and fish species.

5. Describe how applicant will comply with State air quality and water quality standards as established by the S.C. Department of Health and Environmental Control.

Airborne dust is the only air quality control problem that may be associated with the proposed site. To alleviate this potential problem access roads may be watered down during dry periods to settle sand and dirt. These conditions will be monitored and treated as needed.

III. RECLAMATION OF AFFECTED AREA

6. State useful purpose(s) the affected land is being proposed for reclamation. More than one purpose may be checked, but information should be submitted to support the feasibility for each proposed purpose.

- | | |
|---|--|
| a. Lake or pond <input checked="" type="checkbox"/> | f. Grassland <input type="checkbox"/> |
| b. Agriculture <input type="checkbox"/> | g. Recreation <input type="checkbox"/> |
| c. Woodlands <input type="checkbox"/> | h. Wetlands <input type="checkbox"/> |
| d. Residential <input type="checkbox"/> | i. Park <input type="checkbox"/> |
| e. Commercial <input type="checkbox"/> | j. Other <input type="checkbox"/> |

7. State the final maximum surface gradient(s) (slope) in soil, sand, or other unconsolidated materials on reclaimed land. Surface gradients steeper than 3H:1V (18 degrees or 33 percent) may be required to submit geotechnical data and studies to demonstrate that the steeper slopes will remain stable following final reclamation.

3H:1V

8. How will the final slopes in unconsolidated material be accomplished? If the slope will be by backfilling, demonstrate that there is adequate material to accomplish the stated final gradient. If gradient is to be achieved by bringing in material from outside the permitted area, state the nature of the material and approximate quantities. If the gradient is to be achieved by grading, show that there is adequate area for grading to achieve gradient (i.e., adequate distance between the property line and edge of highwall). Operator should show calculations or other appropriate information to demonstrate that there is adequate materials in backfilling and grading to meet the requirements for final slope.

Final grading will be accomplished using the on-site overburden, and sand if needed, along pond edges.

9. Describe the plan for revegetation or other surface treatment of affected area(s). The revegetation plan shall include but not be limited to the following: (a) planned soil test; (b) site preparation and fertilization; (c) seed or plant selection; (d) rate of seeding or amount of planting per acre; (e) maintenance.

(a) Soil tests will be taken as needed once the reclamation has been completed and the final grades are in place.

(b) Site preparation will consist mainly of grading and dragging along the pond edge. Additional fertilizers and lime will be applied according to the soil test results.

(c) The seed will be either broadcasted or hydroseeded with a mixture of rye grass and/or brown top millet.

(d) Rye grass - 1.1 lbs. per 100 sq. ft., brown top millet - 10 lbs. per acre.

(e) No specific maintenance is expected.

10. Provide, as a separate document, a closure plan of the mine and permitted facilities to prevent a release of contaminants from being harmful to the environment. A closure plan is not necessary for all mines, but is required where the possibility exists for (a) acid rock drainage; (b) where the National Pollutant Discharge Elimination Systems (NPDES) Permit has discharge limitation parameters other than pH and Total Suspended Solids (TSS); (c) chemically treated tailings or stockpiles (excludes fertilizer or lime for revegetation purposes).

N/A

11. Method of control of contaminants and disposal of mine waste soil, rock, mineral, scrap, tailings, slimes, and other material directly connected with the mining, cleaning, and preparation of mineral substances mined and includes all waste materials deposited on or in the permit area from any source.

There will be no contaminants, waste soil, rock, minerals, scrap, or slime produced that will necessitate disposal.

12. Method of reclaiming settling and/or sediment ponds.

Upon completion of mining and reclamation activities the sediment pond and tailings pond will be removed and reclaimed as part of the pond. Final contouring of the sediment and tailings pond will be consistent with the proposed reclamation plan, which will provide 3:1 slopes for pond edges and a practical revegetative approach.

13. Describe method of restoration or establishment of stream channels, stream banks and site drainage to a condition minimizing erosion, siltation and other pollution.

Not applicable. There is no need to restore or establish stream channels or site drainage as the current site has neither.

14. What are the maintenance plans to insure that the reclamation practices established on the affected land will not deteriorate before released by the Department?

Once reclamation has been completed and the reclaimed areas have been planted, the affected areas will become stable and will gradually naturalize with native vegetation. With this planting/reclamation scheme it is unlikely that there will be any deterioration before release; however, the affected areas will be monitored and replaced if needed.

15. For final reclamation, submit information about practices to provide for safety to persons and to adjoining property in all excavations. Identify areas of potential danger (vertical walls, unstable slopes, unstable surface on clay slimes, etc.) and provide appropriate safety provisions. These provisions can include but are not limited to setbacks, fencing,

The property will be posted at the perimeter and a locked gate will be in place at the access road. A 50' vegetated buffer around the mine site will also restrict access.

16. What provisions will be taken to prevent noxious, odious, or foul pools of water from collecting and remaining on the mined area? For mines to be reclaimed as lakes or ponds, provide supporting information that a minimum water depth of four (4) feet on at least fifty percent (50%) of the pond surface area can be maintained.

An existing pond adjacent to the proposed mine site has a consistent depth of at least 8 feet. Random explorations within the proposed site have produced similar results, with some areas exceeding that depth. Deposition depth within the proposed mine site will be greater than or equal to eight feet.

17. Identify any structures (e.g. buildings, roads) that are proposed to remain as part of final reclamation. Provide justification for leaving any structures.

No structures will remain.

18. Attach two (2) copies of a map of the area (referred to as the RECLAMATION MAP) that shows the reclamation practices and conservation practices to be implemented. The following should be shown:
- A. The outline of the proposed final limits of the excavation during the number of years for which the permit is requested.
 - B. The approximate final surface gradient(s) and contour(s) of the area to be reclaimed. This would include the sides and bottoms of mines reclaimed ponds and lakes.
 - C. The outline of the tailings disposal area.
 - D. The outline of disposal areas for spoil and refuse (exclusive of tailings ponds).
 - E. The approximate location of the mean shore line of any impoundment or water body and inlet and/or outlet structures which will remain upon final reclamation.
 - F. The approximate locations of access roads, haul roads, ramps or buildings which will remain upon final reclamation.
 - G. The approximate locations of various vegetative treatments.
 - H. The proposed locations of re-established streams, ditches or drainage channels to provide for site drainage.
 - I. The proposed locations of diversions, terraces, silt fences, brush barriers or other Best Management Practices to be used for preventing or controlling erosion and off-site siltation.
 - J. Proposed locations of the measures to provide safety to persons and adjoining property.
 - K. Segments of the mine that can be mined and reclaimed as an ongoing basis.
 - L. The boundaries of the permitted area.
 - M. The boundaries of the affected area for the anticipated life of the mine.
 - N. The boundaries of the 100-year floodplain, where appropriate.
 - O. Identify sections of mine where the final surface gradient will be achieved by grading and/or backfilling.
 - P. A legend showing the name of the applicant, the name of the proposed mine, the north arrow, the county, the scale, the date of preparation and the name and title of the person who prepared the map.

THE REQUIRED RECLAMATION MAP SHALL HAVE A NEAT, LEGIBLE APPEARANCE AND BE OF SUFFICIENT SCALE TO CLEARLY SHOW THE REQUIRED INFORMATION LISTED ABOVE. THE BASE FOR THE MAP SHALL BE EITHER A SPECIALLY PREPARED LINE DRAWING, AERIAL PHOTOGRAPH, ENLARGED USGS TOPOGRAPHIC MAP OR A RECENTLY PREPARED PLAT. RECLAMATION MAP SHOULD BE THE SAME SCALE USED FOR THE SITE MAP.

IV. SCHEDULE FOR IMPLEMENTATION OF CONSERVATION AND RECLAMATION PRACTICES

19. As stated in Section 48-20-90 of the S.C. Mining Act, reclamation activities, to the extent feasible, must be conducted simultaneously with mining operations. Identify which areas or segments of the mine are not feasible to reclaim simultaneously with mining. Provide reasons why reclamation can not proceed simultaneously with mining in these areas.

Reclamation activities will be conducted simultaneously with mining operations.

[illegible]

DHEC 3103 (03/1994)

YOU ARE NOTIFIED THAT:

- 1) You, the operator, must file an application to modify the reclamation plan in the event actual reclamation varies from the set forth hereinabove; and
- 2) If at any time it appears to the Department that the activities under the reclamation plan are failing to achieve the purposes and requirements of the S.C. Mining Act, the Department may modify the RECLAMATION PLAN in accordance to Section 48-20-150.

Timothy Cole
Signature of Applicant/Operator or his Authorized Representative

Timothy Coleman
Printed Name of Applicant/Operator or his Authorized Representative

CEO
Title

1/23/9
Date

Department Use Only

Permit No.: _____ Date Application Approved: _____ Date Bond Rec'd: _____

Bond Amount: _____ Blanket or Single Bond: _____ Permit Issuance Date: _____

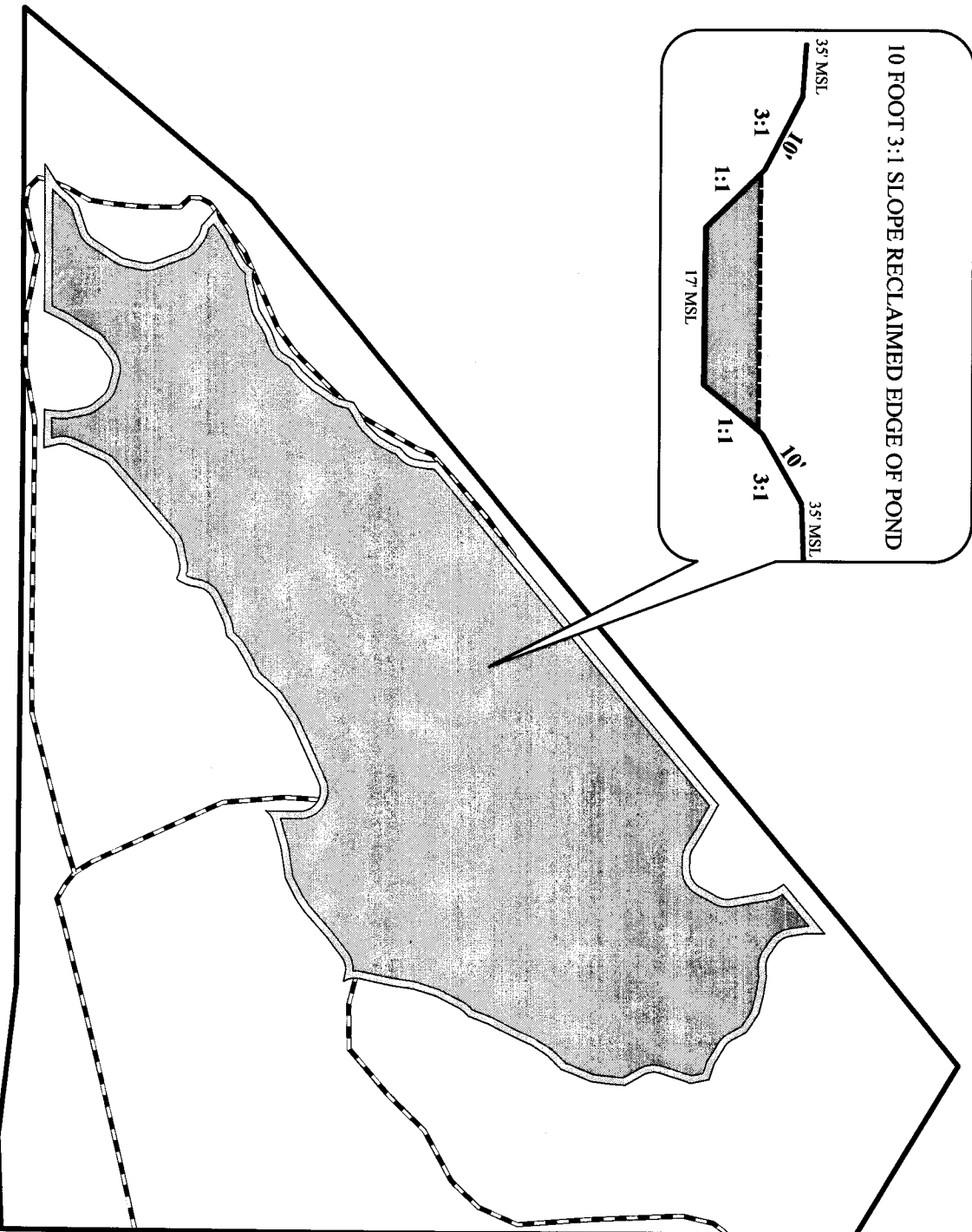
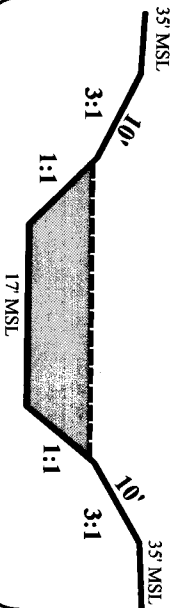
ACTION TAKEN ON THIS RECLAMATION PLAN

_____ Approved _____ Denied _____ Approved with Additional Terms and Conditions

By: _____
DIVISION DIRECTOR

Date: _____

10 FOOT 3:1 SLOPE RECLAIMED EDGE OF POND



RECLAMATION MAP

APPLICANT:
COASTAL CONCRETE SOUTHEAST, LLC
C/O MR. JASON HUDSON

PREPARED BY:
RYAN WENZEL
STAFF ECOLOGIST
SABINE & WATERS, INC.
DECEMBER 16, 2008

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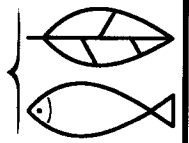
LEGEND

- ☒ PROPERTY BOUNDARY
- ☒ WATER
- ☒ RECLAMATION
- ☒ EXISTING HAUL ROADS

ID ACREAGE LENGTH IN FEET
SEGMENT 11 2.9 7245

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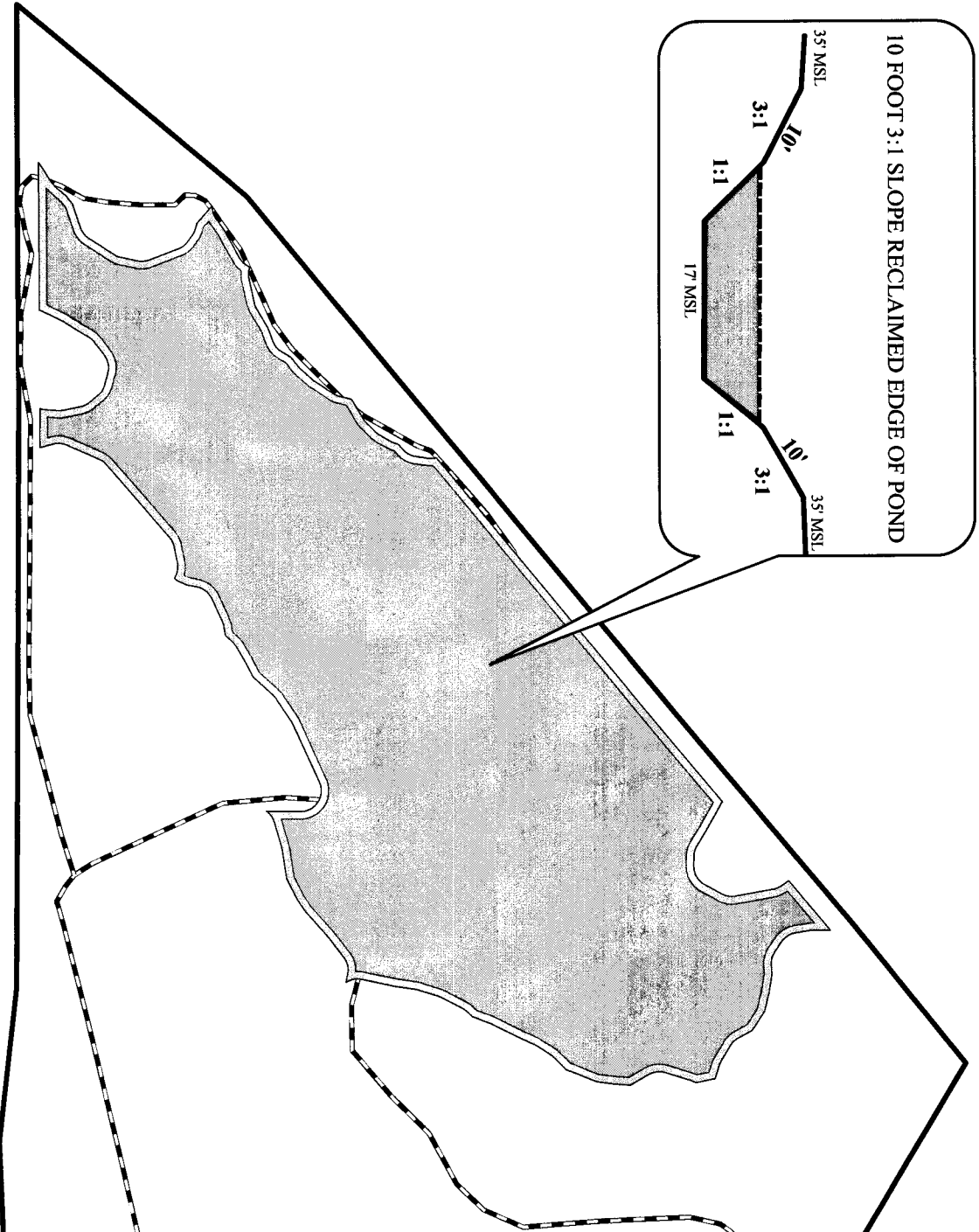
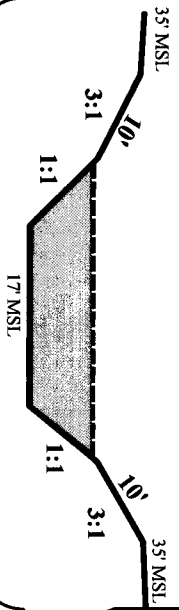
Created By: Matthew T. Zinke - mz@swinc.net
Drawn By: Ryan Wenzel - rw@swinc.net
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Environmental Land Management Consultants
P.O. Box 1072 Summerville, SC 29484
843.871.5383 (phone) 843.871.2050 (fax)
Reclamation@swinc.net



RECLAMATION MAP COASTAL CONCRETE COTTAGEVILLE MINE COLLETON COUNTY, SC

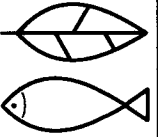


10 FOOT 3:1 SLOPE RECLAIMED EDGE OF POND

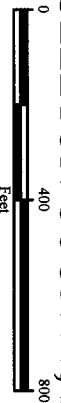


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RECLAMATION MAP COASTAL CONCRETE COTTAGEVILLE MINE COLLETON COUNTY, SC



RECLAMATION MAP

APPLICANT:
COASTAL CONCRETE SOUTHEAST, LLC
C/O MR. JASON HUDSON

PREPARED BY:
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- PROPERTY BOUNDARY
- WATER
- RECLAMATION
- EXISTING HAUL ROADS



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MINE FLOOR

3' MINIMUM

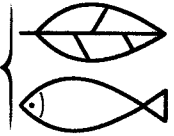
FLOTATION BARREL(S)

HOSE/PIPE FROM PUMP

**PUMP HEAD IN MINE
TO REMAIN MINIMUM
OF 3' FROM MINE FLOOR**

**SUMP DETAIL
COASTAL CONCRETE
COTTAGEVILLE MINE
COLLETON COUNTY, SC**

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Date Created: December 17, 2008
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PUMP HEAD IN MINE
TO REMAIN MINIMUM
OF 3' FROM MINE FLOOR

FLOTATION BARREL(S)

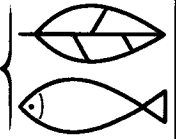
HOSE/PIPE FROM PUMP

3' MINIMUM

MINE FLOOR

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(843) 871-5383 (phone) (843) 871-2050 (fax)
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SUMP DETAIL
COASTAL CONCRETE
COTTAGEVILLE MINE
COLLETON COUNTY, SC



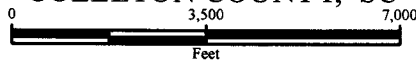
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**FEMA FLOOD PLAIN MAP
 COASTAL CONCRETE
 COTTAGEVILLE MINE
 COLLETON COUNTY, SC**



LEGEND

- PROP. BOUN. FEMA.FEMA.ZONE
- MINE_AREA
- ROADS
- Minimal Flood Hazard Areas
- Moderate Flood Hazard Areas
- Special Flood Hazard Areas



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FEMA FLOOD PLAIN MAP COASTAL CONCRETE COTTAGEVILLE MINE COLLETON COUNTY, SC

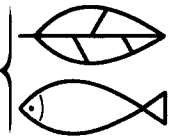
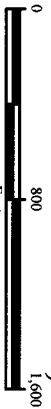
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LEGEND

- PROP. BOUN. FEMA.FEMA.ZONE
- MINE_AREA Minimal Flood Hazard Areas
- ROADS Moderate Flood Hazard Areas
- Special Flood Hazard Areas




~~FUTURE RESERVES~~

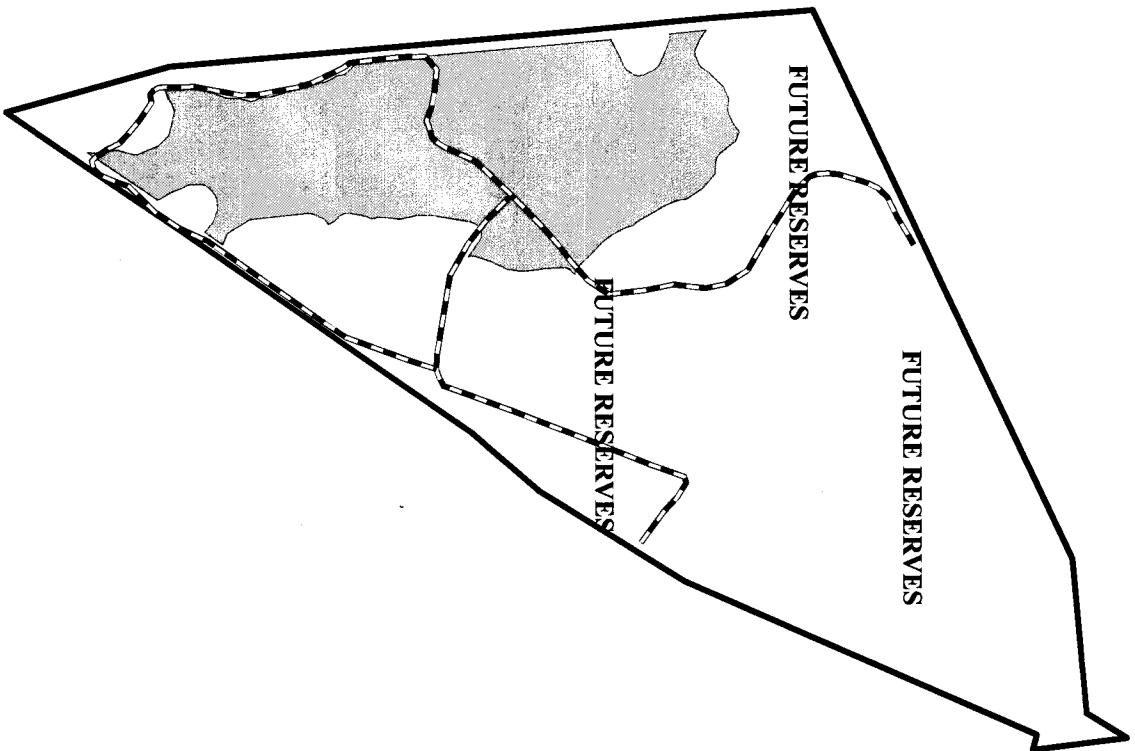
COLLETON COUNTY, SC



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PO. Box 1072 Summitville, SC 29684
843.871.5383 (phone) 843.871.2050 (fax)
e-mail: ts@seibach.net cl@seibach.net fw@seibach.net

 PROPERTY BOUNDARY
 MINE AREA 36.54 AC
 EXISTING HAUL ROADS



FUTURE RESERVES MAP
APPLICANT:
COASTAL CONCRETE SOUTHEAST, LLC
C/O MR. JASON HUDSON

PREPARED BY:
RYAN WENZEL
STAFF ECOLOGIST
SABINE & WATERS, INC.
DECEMBER 16, 2008

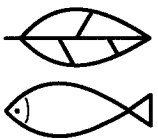
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FUTURE RESERVES - 116.62 ACRES **COASTAL CONCRETE COTTAGEVILLE MINE** **COLLETON COUNTY, SC**

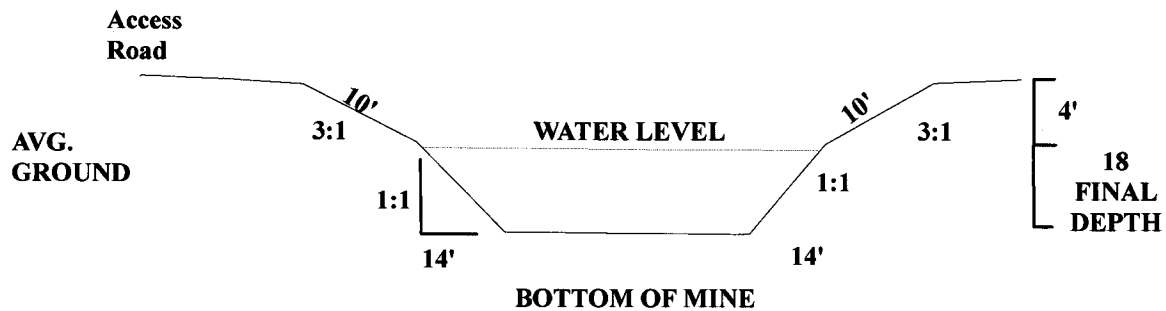


- LEGEND**
- ☐ PROPERTY BOUNDARY
 - ☐ MINE AREA 36.54 AC
 - ☐ EXISTING HAUL ROADS

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 843.871.5383 (Phone) 843.871.2050 (Fax)
R.kundel@coastalconcretehwy17.com future reservesMAPrint



**COASTAL CONCRETE
COTTAGEVILLE MINE
COLLETON COUNTY
DECEMBER 16, 2008**



TYPICAL CROSS-SECTION

Applicant:
Coastal Concrete Southeast, LLC
c/o Mr. Jason Hudson

Prepared By:
Ryan Wenzel
Sabine & Waters, Inc,

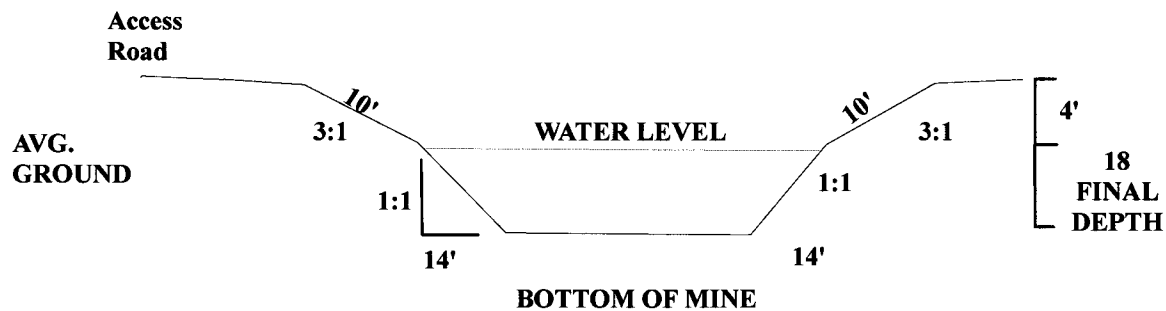
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**COASTAL CONCRETE
COTTAGEVILLE MINE
COLLETON COUNTY
DECEMBER 16, 2008**



TYPICAL CROSS-SECTION

Applicant:
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c/o Mr. Jason Hudson

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Sabine & Waters, Inc,

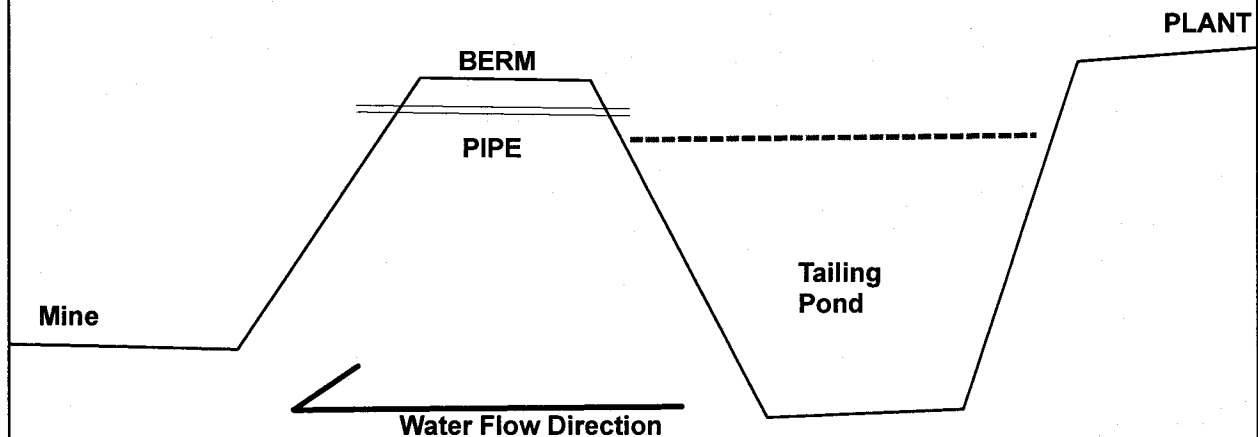
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**COASTAL CONCRETE COTTAGEVILLE MINE
COLLETON COUNTY
DECEMBER 16, 2008**



**TYPICAL CROSS-SECTION
TAILING POND**

Applicant:
Coastal Concrete Southeast, LLC
c/o Mr. Jason Hudson

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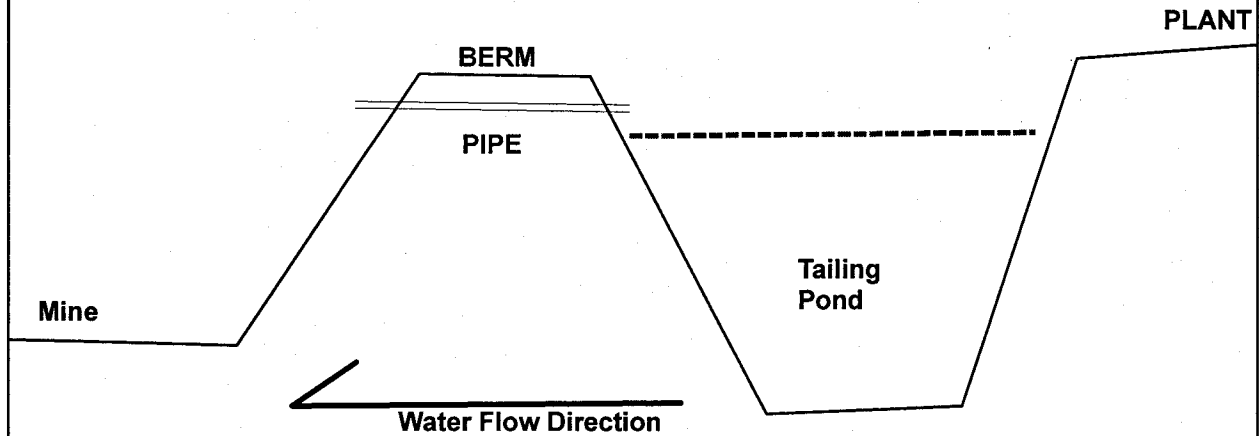
December 16, 2008

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**DIVISION OF MINING &
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**COASTAL CONCRETE COTTAGEVILLE MINE
COLLETON COUNTY
DECEMBER 16, 2008**



**TYPICAL CROSS-SECTION
TAILING POND**

Applicant:
Coastal Concrete Southeast, LLC
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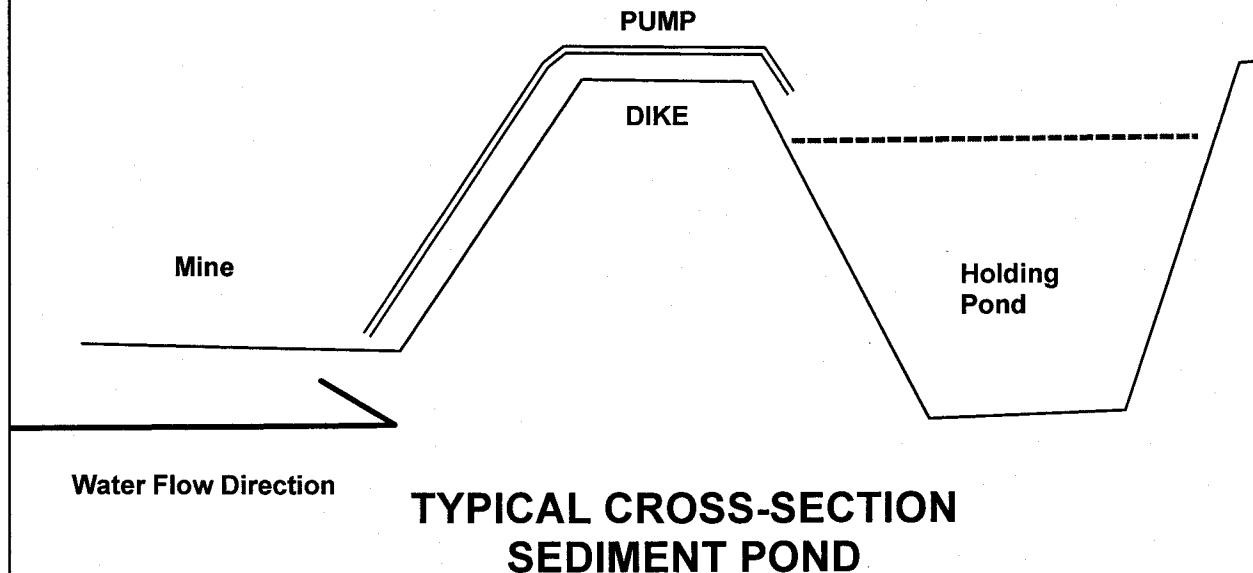
December 16, 2008

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SOLID WASTE MANAGEMENT
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**COASTAL CONCRETE COTTAGEVILLE MINE
COLLETON COUNTY
DECEMBER 16, 2008**



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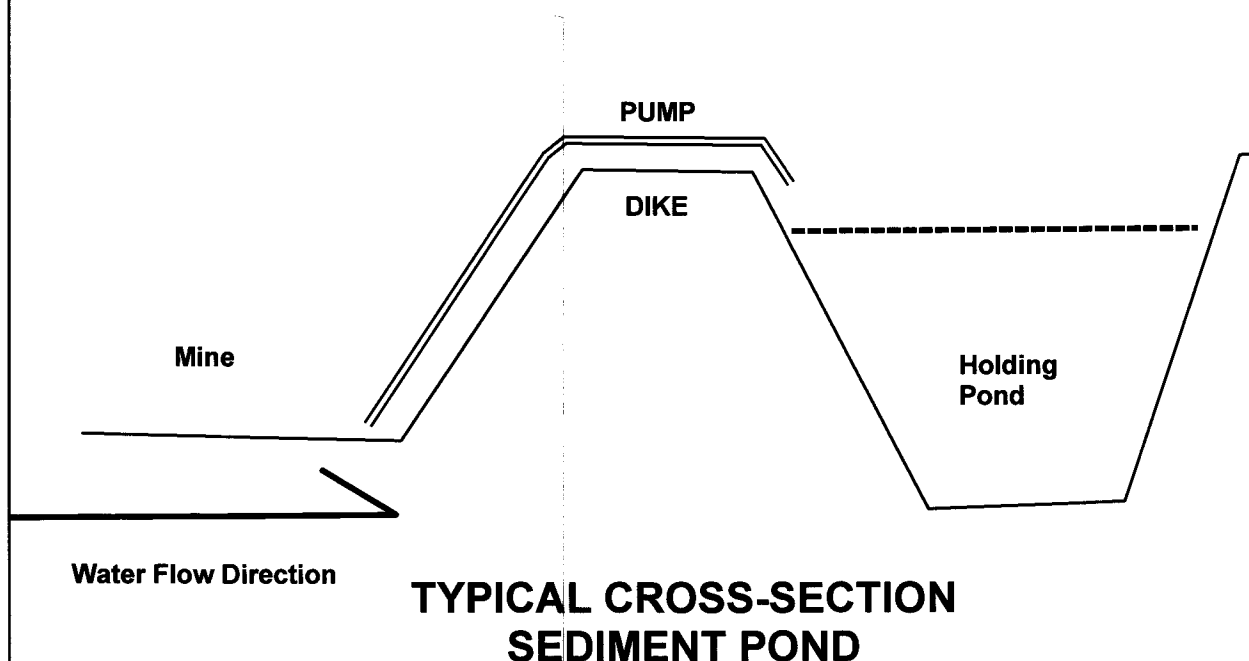
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COLLETON COUNTY
DECEMBER 16, 2008**



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Coastal Concrete Southeast, LLC
c/o Mr. Jason Hudson

Prepared By:
Ryan Wenzel
Sabine & Waters, Inc.

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